

STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft Louisiana Pollutant Discharge Elimination System Permit No. LA0064963; AI 51913; PER20050001 to discharge to waters of the State of Louisiana as per LAC 33:IX.2311.

The permitting authority for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

- I. THE APPLICANT IS:** Village of Dry Prong
Dry Prong Wastewater Treatment Plant
P.O. Box 268
Dry Prong, LA 71423
- II. PREPARED BY:** Angela Marse
- DATE PREPARED:** May 31, 2006
- III. PERMIT ACTION:** LPDES permit LA0064963, AI 51913; PER20050001
- LPDES application received: November 2, 2005
- LPDES permit issued: June 1, 2001
- LPDES permit expired: May 31, 2006

IV. FACILITY INFORMATION:

- A. The application is for the discharge of treated sanitary wastewater from publicly owned treatment works serving the Village of Dry Prong.
- B. The permit application does not indicate the receipt of industrial wastewater.
- C. The facility is located at 326 Mobley Road in Dry Prong, Grant Parish.
- D. The treatment facility consists of a three-cell oxidation pond. Disinfection is by chlorination.
- E. Outfall 001
- Discharge Location: Latitude 31° 34' 14 North
Longitude 92° 31' 19" West
- Description: treated sanitary wastewater
- Design Capacity: 0.076 MGD
- Type of Flow Measurement which the facility is currently using: continuous recorder

V. RECEIVING WATERS:

The discharge is by effluent pipe into Big Creek, thence into Little River in segment 081608 of the Ouachita River Basin. This segment is listed on the 303(d) list of impaired waterbodies.

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The designated uses and degree of support for Segment 081608 of the Ouachita River Basin are as indicated in the table below^{1/}:

Overall Degree of Support for Segment	Degree of Support of Each Use						
	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
Partially Supported	Not Supported	Fully Supported	Not Supported	Full Supported	N/A	N/A	N/A

^{1/}The designated uses and degree of support for Segment 081608 of the Ouachita River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

Section 303 (d) of the Clean Water Act as amended by the Water Quality Act of 1987, and EPA's regulations at 40 CFR 130 require that each state identify those waters within its boundaries not meeting water quality standards. The Clean Water Act further requires states to implement plans to address impairments. Segment 081608, Big Creek – Headwaters to Little River, is on the 2004 Integrated 303(d) List of Impaired Waterbodies. The suspected cause of impairment is mercury. Although Mercury TMDLs for the Little River/Catahoula Lake Watershed have been completed, there is no effluent limitation or monitoring requirement for mercury. The facility flow is less than 100,000 GPD and there are no industrial users, doctors, dentist, etc. Therefore, it is not expected that Dry Prong Wastewater Treatment Plant operations could reasonably be expected to discharge mercury.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 081608 of the Ouachita River Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated October 21, 2005 from Watson (FWS) to Gautreaux (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered species or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' non consultation with the Louisiana State Historic Preservation Officer is required.

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VIII.

PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit modification and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Mrs. Angela Marse

Permits Division

Department of Environmental Quality

Office of Environmental Services

P. O. Box 4313

Baton Rouge, Louisiana 70821-4313

IX.

PROPOSED PERMIT LIMITS:

Final Effluent Limits:

OUTFALL 001

As stated in Section V. Receiving Waters, water quality is limited in Segment 081608. A Wasteload Allocation was developed for this Subsegment in 1990. (WLA, 90.23) Effluent limits in the previous permit were based on the Wasteload Allocation. Since that time, no new Wasteload Allocations or TMDL Studies have been conducted. For this reason, effluent limitations in the proposed permit are the same as those in the previous permit.

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Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg.*	Weekly Avg.*	Basis
BOD ₅	10 mg/l	15 mg/l	Previous permit limit. Based on the Wasteload Allocation for Big Creek at Dry Prong. WLA 90.23
TSS	15 mg/l	23 mg/l	Since there is no numeric water quality criterion for TSS, and in accordance with the current Water Quality Management Plan, the TSS effluent limitations shall be based on a case-by-case evaluation of the treatment technology being utilized at a facility. Therefore, a Technology Based Limit has been established through Best Professional Judgement for the type of treatment technology utilized at this facility.
Ammonia-Nitrogen** (April-October) (November-March)	5 mg/l 10 mg/l	10 mg/l 20 mg/l	Previous permit limit. Based on the Wasteload Allocation for Big Creek at Dry Prong. WLA 90.23
Dissolved Oxygen***	6 mg/l	---	Previous permit limit. Based on the Wasteload Allocation for Big Creek at Dry Prong. WLA 90.23

*Concentration limits are used in accordance with LAC 33:IX.2709.F.1.b which states that mass limitations are not necessary when applicable standards and limitations are expressed in other units of measurement. LAC 33:IX.709.B references LAC 33:IX.711 which express BOD₅ and TSS in terms of concentration.

**Seasonal limits apply only to ammonia-nitrogen.

***This Dissolved Oxygen limit is the lowest allowable average of daily discharges over a calendar month. When monitoring is conducted, the Dissolved Oxygen shall be analyzed immediately, as per 40 CFR 136.3.

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Other Effluent Limitations:**1) Fecal Coliform**

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.b.i, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgment in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

2) pH

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

X.**PREVIOUS PERMITS:**

LPDES Permit No. LA0064963: Issued: June 1, 2001
Expired: May 31, 2006

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Monthly Avg.</u>	<u>Weekly Avg.</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Report	Report	1/week	Measure
CBOD ₅	10 mg/l	15 mg/l	1/month	Grab
TSS	15 mg/l	23 mg/l	1/month	Grab
Ammonia-Nitrogen	5 mg/l	10 mg/l	1/month	Grab
	10 mg/l	20 mg/l	1/month	Grab
Fecal Coliform Colonies	200	400	1/month	Grab

The permit contains pretreatment language.

The permit contains pollution prevention language.

XI.**ENFORCEMENT AND SURVEILLANCE ACTIONS:****A) Inspections**

A review of the files indicates the following most recent inspection was performed for this facility.

Date – October 17, 2005
Inspector - LDEQ

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Findings and/or Violations -

1. There were no DMR excursions for the previous year.
2. Levees for the oxidation pond were mowed and structurally sound.
3. Effluent was clear with no suspended solids.
4. Emergency generator was used during Hurricane Rita to pump down lift stations to prevent bypasses.

B) Compliance and/or Administrative Orders

A review of the files indicates no recent enforcement actions administered against this facility. A warning letter was issued to the Facility on 4/1/2006 for recent permit exceedences.

C) DMR Review

A review of the discharge monitoring reports for the period beginning January, 2004 through March, 2006 has revealed the following violations:

<u>Effluent Characteristic</u>	<u>Number of Violations</u>
BOD ₅ - (concentration)	3
TSS - (concentration)	1
Dissolved oxygen	4
Ammonia-nitrogen	2

XII.

ADDITIONAL INFORMATION:

The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDL's. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as requested by the permittee and/or as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

At present, the Monitoring Requirements, Sample Types, and Frequency of Sampling as shown in the permit are standard for facilities of flows between 0.02 and 0.1 MGD.

<u>Effluent Characteristics</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	1/week	Measure
CBOD ₅	1/month	Grab
Total Suspended Solids	1/month	Grab
Ammonia-Nitrogen	1/month	Grab
Dissolved Oxygen	1/month	Grab
Fecal Coliform Bacteria	1/month	Grab
pH	1/month	Grab

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Pretreatment Requirements

Based upon consultation with LDEQ pretreatment personnel, standard pretreatment language is included in the proposed permit. This is consistent with the previous permit.

XIII**TENTATIVE DETERMINATION:**

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

XIV**REFERENCES:**

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2004.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, Village of Dry Prong, Dry Prong Wastewater Treatment Plant, November 2, 2005.